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DATE: Monday, September 04, 2006

Hide?	<u>Set</u> <u>Name</u>	<u>Query</u>	<u>Hit</u> <u>Count</u>
		<i>DB=PGPB,USPT,EPAB,JPAB,DWPI; PLUR=YES; OP=OR</i>	
<input type="checkbox"/>	L6	l4 and (Leonhartsberger or Maier).in.	4
<input type="checkbox"/>	L5	L4 same synthetas\$4	48
<input type="checkbox"/>	L4	(sam or adomet\$4) same (method\$4 or produc\$4 or synthe\$4 or biosynt\$5) same (bacter\$4 or coli\$4)	276
<input type="checkbox"/>	L3	l2 same escheri\$4	126
<input type="checkbox"/>	L2	L1 same synthetas\$4	488
<input type="checkbox"/>	L1	(sam\$4 or adomet\$4) same (method\$4 or produc\$4 or synthe\$4 or biosynt\$5) same (bacter\$4 or coli\$4)	46982

END OF SEARCH HISTORY

=> d his full

(FILE 'HOME' ENTERED AT 20:40:17 ON 04 SEP 2006)

INDEX 'ADISCTI, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, ANTE, AQUALINE, AQUASCI, BIOENG, BIOSIS, BIOTECHABS, BIOTECHDS, BIOTECHNO, CABA, CAPLUS, CEABA-VTB, CIN, CONFSCI, CROPB, CROPU, DDFB, DDFU, DGENE, DISSABS, DRUGB, DRUGMONOG2, DRUGU, EMBAL, EMBASE, ...' ENTERED AT 20:40:48 ON 04 SEP 2006
SEA (SAM OR ADOMET?)(S)(SYNTHETAS? OR SYNTHAS?)

48 FILE AGRICOLA
1 FILE AQUASCI
18 FILE BIOENG
280 FILE BIOSIS
40 FILE BIOTECHABS
40 FILE BIOTECHDS
158 FILE BIOTECHNO
126 FILE CABA
354 FILE CAPLUS
5 FILE CEABA-VTB
2 FILE CONFSCI
1 FILE CROPU
24 FILE DDFU
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5 FILE EMBAL
179 FILE EMBASE
236 FILE ESBIODBASE
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576 FILE GENBANK
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22 FILE JICST-EPLUS
153 FILE LIFESCI
221 FILE MEDLINE
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123 FILE PASCAL
2 FILE PROMT
215 FILE SCISEARCH
132 FILE TOXCENTER
299 FILE USPATFULL
23 FILE USPAT2
24 FILE WPIDS
24 FILE WPINDEX
2 FILE NLDB

L1 QUE (SAM OR ADOMET?)(S)(SYNTHETAS? OR SYNTHAS?)

D RANK

FILE 'CAPLUS, USPATFULL, BIOSIS, ESBIODBASE, MEDLINE, SCISEARCH, EMBASE, BIOTECHNO, LIFESCI, TOXCENTER' ENTERED AT 20:42:47 ON 04 SEP 2006

L2 2227 SEA (SAM OR ADOMET?)(S)(SYNTHETAS? OR SYNTHAS?)

L3 1715 SEA L2(S)(METHOD? OR SYNTH? OR BIOSYNTH? OR PRODUC? OR PROCES?)

L4 359 SEA L3(S)(BACTER? OR COLI? OR ESCHERI?)

L5 176 DUP REM L4 (183 DUPLICATES REMOVED)

D TI L5 1-175

D IBIB ABS L5 39 40 54 111 114-115 143 146 169

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* * * * * Welcome to STN International * * * * *

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NEWS 2 "Ask CAS" for self-help around the clock
NEWS 3 FEB 27 New STN AnaVist pricing effective March 1, 2006
NEWS 4 MAY 10 CA/CAPLUS enhanced with 1900-1906 U.S. patent records
NEWS 5 MAY 11 KOREAPAT updates resume
NEWS 6 MAY 19 Derwent World Patents Index to be reloaded and enhanced
NEWS 7 MAY 30 IPC 8 Rolled-up Core codes added to CA/CAPLUS and
USPATFULL/USPAT2
NEWS 8 MAY 30 The F-Term thesaurus is now available in CA/CAPLUS
NEWS 9 JUN 02 The first reclassification of IPC codes now complete in
INPADOC
NEWS 10 JUN 26 TULSA/TULSA2 reloaded and enhanced with new search and
and display fields
NEWS 11 JUN 28 Price changes in full-text patent databases EPFULL and PCTFULL
NEWS 12 JUL 11 CHEMSAFE reloaded and enhanced
NEWS 13 JUL 14 FSTA enhanced with Japanese patents
NEWS 14 JUL 19 Coverage of Research Disclosure reinstated in DWPI
NEWS 15 AUG 09 INSPEC enhanced with 1898-1968 archive
NEWS 16 AUG 28 ADISCTI Reloaded and Enhanced
NEWS 17 AUG 30 CA(SM)/CAPLUS(SM) Austrian patent law changes

NEWS EXPRESS JUNE 30 CURRENT WINDOWS VERSION IS V8.01b, CURRENT
MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
AND CURRENT DISCOVER FILE IS DATED 26 JUNE 2006.

NEWS HOURS STN Operating Hours Plus Help Desk Availability
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* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 20:40:17 ON 04 SEP 2006

=> index bioscience medicine

FILE 'DRUGMONOG' ACCESS NOT AUTHORIZED

COST IN U.S. DOLLARS

SINCE FILE
ENTRY

TOTAL
SESSION

FULL ESTIMATED COST

0.21

0.21

INDEX 'ADISCTI, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, ANTE, AQUALINE, AQUASCI, BIOENG, BIOSIS, BIOTECHABS, BIOTECHDS, BIOTECHNO, CABA, CAPLUS, CEABA-VTB, CIN, CONFSCI, CROPB, CROPU, DDFB, DDFU, DGENE, DISSABS, DRUGB, DRUGMONOG2, DRUGU, EMBAL, EMBASE, ...' ENTERED AT 20:40:48 ON 04 SEP 2006

71 FILES IN THE FILE LIST IN STNINDEX

Enter SET DETAIL ON to see search term postings or to view search error messages that display as 0* with SET DETAIL OFF.

=> s (sam or adomet?) (s) (synthetas? or synthas?)

48	FILE AGRICOLA
1	FILE AQUASCI
18	FILE BIOENG
280	FILE BIOSIS
40	FILE BIOTECHABS
40	FILE BIOTECHDS
158	FILE BIOTECHNO
126	FILE CABA
354	FILE CAPLUS
5	FILE CEABA-VTB
2	FILE CONFSCI
1	FILE CROPU
24	FILE DDFU
177	FILE DGENE
33	FILE DISSABS
39	FILE DRUGU

27 FILES SEARCHED...

5	FILE EMBAL
179	FILE EMBASE
236	FILE ES BIOBASE
6	FILE FROSTI
11	FILE FSTA
576	FILE GENBANK
32	FILE IFIPAT
22	FILE JICST-EPLUS
153	FILE LIFESCI
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2	FILE NTIS
123	FILE PASCAL
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215	FILE SCISEARCH
132	FILE TOXCENTER
299	FILE USPATFULL
23	FILE USPAT2

64 FILES SEARCHED...

24	FILE WPIDS
24	FILE WPINDEX
2	FILE NLDB

36 FILES HAVE ONE OR MORE ANSWERS, 71 FILES SEARCHED IN STNINDEX

L1 QUE (SAM OR ADOMET?) (S) (SYNTHETAS? OR SYNTHAS?)

=> d rank

F1	576	GENBANK
F2	354	CAPLUS
F3	299	USPATFULL
F4	280	BIOSIS
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F28	6	FROSTI
F29	5	CEABA-VTB
F30	5	EMBAL
F31	2	CONFSCI
F32	2	NTIS
F33	2	PROMT
F34	2	NLDB
F35	1	AQUASCI
F36	1	CROPU

=> file f2-f8, f10-12
COST IN U.S. DOLLARS

	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	1.83	2.04

FILE 'CAPLUS' ENTERED AT 20:42:47 ON 04 SEP 2006
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=> s (sam or adomet?) (s) (synthetas? or synthas?)
L2      2227 (SAM OR ADOMET?) (S) (SYNTHETAS? OR SYNTHAS?)

=> s l2(s) (method? or synthe? or biosynthe? or produc? or proces?)
4 FILES SEARCHED...
L3      1715 L2(S) (METHOD? OR SYNTHE? OR BIOSYNTHE? OR PRODUC? OR PROCES?)

=> s l3(s) (bacter? or coli? or escheri?)
8 FILES SEARCHED...
L4      359 L3(S) (BACTER? OR COLI? OR ESCHERI?)

=> dup rem l4
PROCESSING COMPLETED FOR L4
L5      176 DUP REM L4 (183 DUPLICATES REMOVED)

=> d ti l5 1-175

L5      ANSWER 1 OF 176  USPATFULL on STN
TI      Methods and systems for predicting cancer outcome

L5      ANSWER 2 OF 176  USPATFULL on STN
TI      Methods for predicting cancer outcome and gene signatures for use
        therein

L5      ANSWER 3 OF 176  USPATFULL on STN
TI      Methods for indentifying compounds that modulate an enzyme involved in
        riboflavin metabolism in a pathogenic microorganism

L5      ANSWER 4 OF 176  USPATFULL on STN
TI      Methods for indentifying compounds that modulate an enzyme involved in
        reductive carboxylation in a pathogenic microorganism

L5      ANSWER 5 OF 176  USPATFULL on STN
TI      Methods for indentifying compounds that modulate an enzyme involved in
        thiamine metabolism in a pathogenic microorganism

L5      ANSWER 6 OF 176  USPATFULL on STN
TI      Pharmaceutical compositions

L5      ANSWER 7 OF 176  USPATFULL on STN
TI      Inhibitors of nucleoside phosphorylases and nucleosidases

L5      ANSWER 8 OF 176  USPATFULL on STN
TI      Feedback-resistant homoserine transsuccinylases having a modified c
        terminus

L5      ANSWER 9 OF 176  USPATFULL on STN
TI      Methods for indentifying compounds that modulate an enzyme in the
        coenzyme a biosynthetic pathway in a pathogenic microorganism

L5      ANSWER 10 OF 176  USPATFULL on STN
TI      Nanomachine compositions and methods of use

L5      ANSWER 11 OF 176  USPATFULL on STN
TI      Methods of identifying patients at risk of developing encephalitis
        following immunotherapy for Alzheimer's disease

L5      ANSWER 12 OF 176  USPATFULL on STN
TI      Complete genome and protein sequence of the hyperthermophile
        methanopyrus kandleri av19 and monophyly of archael methanogens and
        methods of use thereof

L5      ANSWER 13 OF 176  USPATFULL on STN
TI      Method for the identification and treatment of pathogenic microorganism
        infections by inhibiting one or more enzymes in an essential metabolic

```

pathway

L5 ANSWER 14 OF 176 USPATFULL on STN
TI Novel full length cDNA

L5 ANSWER 15 OF 176 USPATFULL on STN
TI Nucleic acid sequences relating to Bacteroides fragilis for diagnostics and therapeutics

L5 ANSWER 16 OF 176 USPATFULL on STN
TI Nucleic acid and amino acid sequences relating to Staphylococcus epidermidis for diagnostics and therapeutics

L5 ANSWER 17 OF 176 Elsevier BIOBASE COPYRIGHT 2006 Elsevier Science B.V. on STN DUPLICATE
TI Identification of fungal sphingolipid C9-methyltransferases by phylogenetic profiling

L5 ANSWER 18 OF 176 Elsevier BIOBASE COPYRIGHT 2006 Elsevier Science B.V. on STN
TI In vivo hydrolysis of S-adenosylmethionine induces the met regulon of Escherichia coli

L5 ANSWER 19 OF 176 LIFESCI COPYRIGHT 2006 CSA on STN
TI In vivo hydrolysis of S-adenosylmethionine induces the met regulon of Escherichia coli

L5 ANSWER 20 OF 176 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN
TI Assessment of inhibitors of S-adenosylmethionine synthesis discovered by computational docking.

L5 ANSWER 21 OF 176 Elsevier BIOBASE COPYRIGHT 2006 Elsevier Science B.V. on STN
TI The Structure of the RNA m.sup.5C Methyltransferase YebU from Escherichia coli Reveals a C-terminal RNA-recruiting PUA Domain

L5 ANSWER 22 OF 176 MEDLINE on STN
TI Molecular evolution of AdoMet synthetase by DNA recombination with a novel separate-mixing method.

L5 ANSWER 23 OF 176 CAPLUS COPYRIGHT 2006 ACS on STN DUPLICATE 2
TI Molecular evolution of adomet synthetase by DNA recombination with a novel Separate-Mixing method

L5 ANSWER 24 OF 176 Elsevier BIOBASE COPYRIGHT 2006 Elsevier Science B.V. on STN DUPLICATE
TI Characterization of S-adenosylmethionine synthetase from Streptomyces avermitilis NRRL8165 and its effect on antibiotic production

L5 ANSWER 25 OF 176 CAPLUS COPYRIGHT 2006 ACS on STN DUPLICATE 4
TI Cloning and expression of rat liver S-adenosylmethionine synthetase

L5 ANSWER 26 OF 176 CAPLUS COPYRIGHT 2006 ACS on STN DUPLICATE 5
TI The SMK box is a new SAM-binding RNA for translational regulation of SAM synthetase

L5 ANSWER 27 OF 176 Elsevier BIOBASE COPYRIGHT 2006 Elsevier Science B.V. on STN
TI Spectral and kinetic characterization of 7,8-diaminopelargonic acid synthase from Mycobacterium tuberculosis

L5 ANSWER 28 OF 176 USPATFULL on STN
TI Constructs and methods for the regulation of gene expression

L5 ANSWER 29 OF 176 USPATFULL on STN
TI Corynebacterium glutamicum genes encoding proteins involved in membrane synthesis and membrane transport

L5 ANSWER 30 OF 176 USPATFULL on STN
TI Quorum sensing signaling in bacteria

L5 ANSWER 31 OF 176 USPATFULL on STN
TI Nucleic acid and amino acid sequences relating to streptococcus pneumoniae for diagnostics and therapeutics

L5 ANSWER 32 OF 176 USPATFULL on STN
TI Adenosylmethionine synthetase from streptomyces sp gene sequences coding the same and method for mass production for secondary metabolites including antibiotics thereof

L5 ANSWER 33 OF 176 USPATFULL on STN
TI Identification and isolation of novel polypeptides having PDZ domains and methods of using same

L5 ANSWER 34 OF 176 USPATFULL on STN
TI Protein interaction mapping

L5 ANSWER 35 OF 176 USPATFULL on STN
TI Quorum sensing signaling in bacteria

L5 ANSWER 36 OF 176 Elsevier BIOBASE COPYRIGHT 2006 Elsevier Science B.V. on STN
TI A nucleosidase required for in vivo function of the S-adenosyl-L-methionine radical enzyme, biotin synthase

L5 ANSWER 37 OF 176 Elsevier BIOBASE COPYRIGHT 2006 Elsevier Science B.V. on STN DUPLICATE
TI Transcriptional analysis of the cyclopropane fatty acid synthase gene of Lactococcus lactis MG1363 at low pH

L5 ANSWER 38 OF 176 Elsevier BIOBASE COPYRIGHT 2006 Elsevier Science B.V. on STN DUPLICATE
TI Developmental regulation of 1-aminocyclopropane-1-carboxylate synthase gene expression during leaf ontogeny in white clover

L5 ANSWER 39 OF 176 CAPLUS COPYRIGHT 2006 ACS on STN DUPLICATE 8
TI Method for fermentative preparation of S-adenosylmethionine using recombinant Escherichia coli

L5 ANSWER 40 OF 176 CAPLUS COPYRIGHT 2006 ACS on STN
TI Enzymatic catalysis method for producing S-adenosylmethionine

L5 ANSWER 41 OF 176 USPATFULL on STN
TI Inhibitors of spermidine synthase for the treatment of osteoarthritis and cartilage rehabilitation

L5 ANSWER 42 OF 176 USPATFULL on STN
TI Polypeptides involved in the biosynthesis of streptogramins, nucleotide sequences coding for these polypeptides and their use

L5 ANSWER 43 OF 176 USPATFULL on STN
TI Nucleic acid molecules encoding proteins essential for plant growth and development and uses thereof

L5 ANSWER 44 OF 176 USPATFULL on STN
TI Treatment of patients with multiple sclerosis based on gene expression changes in central nervous system tissues

L5 ANSWER 45 OF 176 USPATFULL on STN

TI Overcoming DAPA aminotransferase bottlenecks in biotin vitamers biosynthesis

L5 ANSWER 46 OF 176 USPATFULL on STN
TI Screening method for anti-microbial drug targets by genome-saturating mutagenesis (gsm)

L5 ANSWER 47 OF 176 USPATFULL on STN
TI Methods and compositions for determining enzymatic activity and specificity of methlytransferases

L5 ANSWER 48 OF 176 USPATFULL on STN
TI Fungal gene cluster associated with pathogenesis

L5 ANSWER 49 OF 176 USPATFULL on STN
TI Nanomachine compositions and methods of use

L5 ANSWER 50 OF 176 USPATFULL on STN
TI Senescence-associated plant promoters

L5 ANSWER 51 OF 176 USPATFULL on STN
TI Gene expression in bladder tumors

L5 ANSWER 52 OF 176 USPATFULL on STN
TI Quorum sensing signaling in bacteria

L5 ANSWER 53 OF 176 USPATFULL on STN
TI Human cystathionine beta-synthase variants and methods of production thereof

L5 ANSWER 54 OF 176 USPATFULL on STN
TI Corynebacterium glutamicum genes encoding proteins involved in membrane synthesis and membrane transport

L5 ANSWER 55 OF 176 USPATFULL on STN
TI Streptococcus pneumoniae polynucleotides and sequences

L5 ANSWER 56 OF 176 USPATFULL on STN
TI Novel human polynucleotides and polypeptides encoded thereby

L5 ANSWER 57 OF 176 USPATFULL on STN
TI Method for the identification and treatment of pathogenic microorganism infections by inhibiting one or more enzymes in an essential metabolic pathway and compounds and pharmaceutical compositions useful therefor

L5 ANSWER 58 OF 176 USPATFULL on STN
TI Methods of diagnosis of ovarian cancer, compositions and methods of screening for modulators of ovarian cancer

L5 ANSWER 59 OF 176 USPATFULL on STN
TI Novel full-length cDNA

L5 ANSWER 60 OF 176 USPATFULL on STN
TI Polypeptides from Chlamydia pneumoniae and their use in the diagnosis, prevention and treatment of disease

L5 ANSWER 61 OF 176 USPATFULL on STN
TI Nucleic acid and amino acid sequences relating to Streptococcus pneumoniae for diagnostics and therapeutics

L5 ANSWER 62 OF 176 USPATFULL on STN
TI Cathepsin V-like polypeptides

L5 ANSWER 63 OF 176 USPATFULL on STN
TI Nucleic acid sequences relating to Candida albicans for diagnostics and

therapeutics

- L5 ANSWER 64 OF 176 USPATFULL on STN
TI Nucleic acids and polypeptides
- L5 ANSWER 65 OF 176 USPATFULL on STN
TI DNA array sequence selection
- L5 ANSWER 66 OF 176 USPATFULL on STN
TI Corynebacterium glutamicum genes encoding proteins involved in membrane synthesis and membrane transport
- L5 ANSWER 67 OF 176 USPATFULL on STN
TI Tumor necrosis factor receptor 2
- L5 ANSWER 68 OF 176 USPATFULL on STN
TI Genes expressed in C3A liver cell cultures treated with steroids
- L5 ANSWER 69 OF 176 LIFESCI COPYRIGHT 2006 CSA on STN
TI Escherichia coli Lipoyl Synthase Binds Two Distinct [4Fe-4S] Clusters per Polypeptide
- L5 ANSWER 70 OF 176 Elsevier BIOBASE COPYRIGHT 2006 Elsevier Science B.V. on STN
TI Escherichia coli cyclopropane fatty acid synthase: Mechanistic and site-directed mutagenetic studies
- L5 ANSWER 71 OF 176 Elsevier BIOBASE COPYRIGHT 2006 Elsevier Science B.V. on STN
TI Role of the [2Fe-2S] Cluster in Recombinant Escherichia coli Biotin Synthase
DUPLICATE
- L5 ANSWER 72 OF 176 Elsevier BIOBASE COPYRIGHT 2006 Elsevier Science B.V. on STN
TI Characterization of the Cofactor Composition of Escherichia coli Biotin Synthase
DUPLICATE
- L5 ANSWER 73 OF 176 Elsevier BIOBASE COPYRIGHT 2006 Elsevier Science B.V. on STN
TI Crystal Structure of the S-Adenosylmethionine Synthetase Ternary Complex: A Novel Catalytic Mechanism of S-Adenosylmethionine Synthesis from ATP and Met
- L5 ANSWER 74 OF 176 Elsevier BIOBASE COPYRIGHT 2006 Elsevier Science B.V. on STN
TI 5'-Methylthioadenosine Modulates the Inflammatory Response to Endotoxin in Mice and in Rat Hepatocytes
- L5 ANSWER 75 OF 176 CAPLUS COPYRIGHT 2006 ACS on STN
TI Gene switching in Amoeba proteus caused by endosymbiotic bacteria
DUPLICATE 11
- L5 ANSWER 76 OF 176 USPATFULL on STN
TI Compositions and methods for identifying and distinguishing orthosomycin biosynthetic loci
- L5 ANSWER 77 OF 176 USPATFULL on STN
TI Novel nucleic acids and polypeptides
- L5 ANSWER 78 OF 176 USPATFULL on STN
TI Differentially-regulated prostate cancer genes
- L5 ANSWER 79 OF 176 USPATFULL on STN
TI Method for the identification and treatment of pathogenic microorganism infections by inhibiting one or more enzymes in an essential metabolic pathway

L5 ANSWER 80 OF 176 USPATFULL on STN
 TI Genes and proteins for the biosynthesis of polyketides

L5 ANSWER 81 OF 176 USPATFULL on STN
 TI Inhibitors of autoinducer transporters

L5 ANSWER 82 OF 176 USPATFULL on STN
 TI Nanomachine compositions and methods of use

L5 ANSWER 83 OF 176 USPATFULL on STN
 TI Nanomachine compositions and methods of use

L5 ANSWER 84 OF 176 USPATFULL on STN
 TI Structural basis of quorum sensing signal generation and methods and therapeutic agents derived therefrom

L5 ANSWER 85 OF 176 USPATFULL on STN
 TI Expressed sequences of arabidopsis thaliana

L5 ANSWER 86 OF 176 USPATFULL on STN
 TI Betaines as adjuvants to susceptibility testing and antimicrobial therapy

L5 ANSWER 87 OF 176 USPATFULL on STN
 TI Identification of modulatory molecules using inducible promoters

L5 ANSWER 88 OF 176 USPATFULL on STN
 TI Genes and proteins for the biosynthesis of anthramycin

L5 ANSWER 89 OF 176 USPATFULL on STN
 TI SAM operon

L5 ANSWER 90 OF 176 USPATFULL on STN
 TI Polypeptides involved in the biosynthesis of streptogramins, nucleotide sequences coding for these polypeptides and their use

L5 ANSWER 91 OF 176 USPATFULL on STN
 TI Nucleic acid and amino acid sequences relating to Enterococcus faecalis for diagnostics and therapeutics

L5 ANSWER 92 OF 176 USPATFULL on STN
 TI Nucleic acid and amino acid sequences relating to Acinetobacter baumannii for diagnostics and therapeutics

L5 ANSWER 93 OF 176 USPATFULL on STN
 TI Nucleic acid and amino acid sequences relating to pseudomonas aeruginosa for diagnostics and therapeutics

L5 ANSWER 94 OF 176 LIFESCI COPYRIGHT 2006 CSA on STN
 TI Biochemical Diversity among the 1-Amino-cyclopropane-1-Carboxylate Synthase Isozymes Encoded by the Arabidopsis Gene Family

L5 ANSWER 95 OF 176 Elsevier BIOBASE COPYRIGHT 2006 Elsevier Science B.V. on STN
 DUPLICATE
 TI Identification and functional reconstitution of yeast mitochondrial carrier for S-adenosylmethionine

L5 ANSWER 96 OF 176 Elsevier BIOBASE COPYRIGHT 2006 Elsevier Science B.V. on STN
 DUPLICATE
 TI Transcription termination control of the S box system: Direct measurement of S-adenosylmethionine by the leader RNA

L5 ANSWER 97 OF 176 Elsevier BIOBASE COPYRIGHT 2006 Elsevier Science B.V. on STN

TI Control of adenosylmethionine-dependent radical generation in biotin synthase: A kinetic and thermodynamic analysis of substrate binding to active and inactive forms of BioB
 L5 ANSWER 98 OF 176 BIOTECHNO COPYRIGHT 2006 Elsevier Science B.V. on STN
 DUPLICATE
 TI Accumulation of S-adenosyl-L-methionine enhances production of actinorhodin but inhibits sporulation in Streptomyces lividans TK23
 L5 ANSWER 99 OF 176 CAPLUS COPYRIGHT 2006 ACS on STN
 TI Conformational dynamics of the active site loop of S-adenosylmethionine synthetase illuminated by site-directed spin labeling
 L5 ANSWER 100 OF 176 Elsevier BIOBASE COPYRIGHT 2006 Elsevier Science B.V. on STN
 DUPLICATE
 TI Bacterial-like energy metabolism in the amitochondriate protozoon Hexamita inflata
 L5 ANSWER 101 OF 176 USPATFULL on STN
 TI Inhibitors of spermidine synthase for the treatment of osteoarthritis and cartilage rehabilitation
 L5 ANSWER 102 OF 176 USPATFULL on STN
 TI Melon promoters for expression of transgenes in plants
 L5 ANSWER 103 OF 176 USPATFULL on STN
 TI OVERCOMING DAPA AMINOTRANSFERASE BOTTLENECKS IN BIOTIN VITAMERS BIOSYNTHESIS
 L5 ANSWER 104 OF 176 USPATFULL on STN
 TI Expressed sequences of arabidopsis thaliana
 L5 ANSWER 105 OF 176 USPATFULL on STN
 TI Betaines as adjuvants to susceptibility testing and antimicrobial therapy
 L5 ANSWER 106 OF 176 USPATFULL on STN
 TI Apple promoters for expression of transgenes in plants
 L5 ANSWER 107 OF 176 Elsevier BIOBASE COPYRIGHT 2006 Elsevier Science B.V. on STN
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 TI Enzymatic properties of S-adenosylmethionine synthetase from the archaeon Methanococcus jannaschii
 L5 ANSWER 108 OF 176 Elsevier BIOBASE COPYRIGHT 2006 Elsevier Science B.V. on STN
 TI The active site loop of S-adenosylmethionine synthetase modulates catalytic efficiency
 L5 ANSWER 109 OF 176 Elsevier BIOBASE COPYRIGHT 2006 Elsevier Science B.V. on STN
 DUPLICATE
 TI Studies on the role of the metK gene product of Escherichia coli K-12
 L5 ANSWER 110 OF 176 USPATFULL on STN
 TI Cotton modification using ovary-tissue transcriptional factors
 L5 ANSWER 111 OF 176 USPATFULL on STN
 TI SAM operon
 L5 ANSWER 112 OF 176 USPATFULL on STN
 TI Polypeptides involved in the biosynthesis of streptogramins, nucleotide sequences coding for these polypeptides and their use
 L5 ANSWER 113 OF 176 Elsevier BIOBASE COPYRIGHT 2006 Elsevier Science B.V. on STN
 DUPLICATE

TI In vitro reconstitution of the *Pseudomonas aeruginosa* nonribosomal peptide synthesis of pyochelin: Characterization of backbone tailoring thiazoline reductase and N-methyltransferase activities

L5 ANSWER 114 OF 176 CAPLUS COPYRIGHT 2006 ACS on STN DUPLICATE 19
 TI Lowering S-adenosylmethionine levels in *Escherichia coli* modulates C-to-T transition mutations

L5 ANSWER 115 OF 176 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN
 TI metK is an essential gene in *E. coli* K-12.

L5 ANSWER 116 OF 176 USPATFULL on STN
 TI Polypeptides involved in the biosynthesis of streptogramins, nucleotide sequences coding for these polypeptides and their use

L5 ANSWER 117 OF 176 Elsevier BIOBASE COPYRIGHT 2006 Elsevier Science B.V. on STN
 TI Iron-sulfur cluster interconversions in biotin synthase: Dissociation and reassociation of iron during conversion of [2Fe-2S] to [4Fe-4S] clusters

L5 ANSWER 118 OF 176 CAPLUS COPYRIGHT 2006 ACS on STN DUPLICATE 20
 TI Energetics of S-Adenosylmethionine Synthetase Catalysis

L5 ANSWER 119 OF 176 CAPLUS COPYRIGHT 2006 ACS on STN DUPLICATE 21
 TI The bifunctional active site of S-adenosylmethionine synthetase. Roles of the basic residues

L5 ANSWER 120 OF 176 USPATFULL on STN
 TI Polypeptides involved in the biosynthesis of streptogramins, nucleotide sequences coding for these polypeptides and their use

L5 ANSWER 121 OF 176 USPATFULL on STN
 TI Combinations and methods for reducing antimicrobial resistance

L5 ANSWER 122 OF 176 CAPLUS COPYRIGHT 2006 ACS on STN DUPLICATE 22
 TI The bifunctional active site of S-adenosylmethionine synthetase. Roles of the active site aspartates

L5 ANSWER 123 OF 176 CAPLUS COPYRIGHT 2006 ACS on STN DUPLICATE 23
 TI Influence of S-adenosylmethionine pool size on spontaneous mutation, Dam methylation, and cell growth of *Escherichia coli*

L5 ANSWER 124 OF 176 CAPLUS COPYRIGHT 2006 ACS on STN DUPLICATE 24
 TI The Conformations of a Substrate and a Product Bound to the Active Site of S-Adenosylmethionine Synthetase

L5 ANSWER 125 OF 176 CAPLUS COPYRIGHT 2006 ACS on STN DUPLICATE 25
 TI Genome degradation is an ongoing process in *Rickettsia* evolution

L5 ANSWER 126 OF 176 Elsevier BIOBASE COPYRIGHT 2006 Elsevier Science B.V. on STN DUPLICATE
 TI Molecular characterization of *Plasmodium falciparum* S-adenosylmethionine synthetase

L5 ANSWER 127 OF 176 Elsevier BIOBASE COPYRIGHT 2006 Elsevier Science B.V. on STN DUPLICATE
 TI Characterization of recombinant *Arabidopsis thaliana* threonine synthase

L5 ANSWER 128 OF 176 Elsevier BIOBASE COPYRIGHT 2006 Elsevier Science B.V. on STN DUPLICATE
 TI The biosynthesis of mycolic acids in *Mycobacterium tuberculosis*: Enzymatic methyl(ene) transfer to acyl carrier protein bound meromycolic acid in vitro

L5 ANSWER 129 OF 176 CAPLUS COPYRIGHT 2006 ACS on STN DUPLICATE 29
 TI The Active-Site Arginine of S-Adenosylmethionine Synthetase Orients the Reaction Intermediate

L5 ANSWER 130 OF 176 Elsevier BIOBASE COPYRIGHT 2006 Elsevier Science B.V. on STN
 TI The mechanism of adenosylmethionine-dependent activation of methionine synthase: A rapid kinetic analysis of intermediates in reductive methylation of cob(II)alamin enzyme

L5 ANSWER 131 OF 176 CAPLUS COPYRIGHT 2006 ACS on STN DUPLICATE 30
 TI Lack of S-adenosylmethionine results in a cell division defect in *Escherichia coli*

L5 ANSWER 132 OF 176 CAPLUS COPYRIGHT 2006 ACS on STN DUPLICATE 31
 TI A new series of cyclic amino acids as inhibitors of S-adenosyl-L-methionine synthetase

L5 ANSWER 133 OF 176 Elsevier BIOBASE COPYRIGHT 2006 Elsevier Science B.V. on STN
 TI A new series of S-adenosyl-L-methionine synthetase inhibitors

L5 ANSWER 134 OF 176 Elsevier BIOBASE COPYRIGHT 2006 Elsevier Science B.V. on STN
 TI Trypsin cleavage of human cystathionine β -synthase into an evolutionarily conserved active core: Structural and functional consequences

L5 ANSWER 135 OF 176 USPATFULL on STN
 TI Screening for mutations by expressing cDNA segments

L5 ANSWER 136 OF 176 CAPLUS COPYRIGHT 2006 ACS on STN
 TI Evidence for symbiont-induced alteration of a host's gene expression: irreversible loss of SAM synthetase from *Amoeba proteus*

L5 ANSWER 137 OF 176 CAPLUS COPYRIGHT 2006 ACS on STN DUPLICATE 32
 TI Regulation of rat liver S-adenosylmethionine synthetase during septic shock: role of nitric oxide

L5 ANSWER 138 OF 176 Elsevier BIOBASE COPYRIGHT 2006 Elsevier Science B.V. on STN DUPLICATE
 TI Nucleotide sequence and developmental expression of *Acanthamoeba* S-adenosylmethionine synthetase gene

L5 ANSWER 139 OF 176 USPATFULL on STN
 TI Genetic control of ethylene biosynthesis in plants

L5 ANSWER 140 OF 176 Elsevier BIOBASE COPYRIGHT 2006 Elsevier Science B.V. on STN DUPLICATE
 TI A novel bifunctional fusion enzyme catalyzing ethylene synthesis via 1-aminocyclopropane-1-carboxylic acid

L5 ANSWER 141 OF 176 Elsevier BIOBASE COPYRIGHT 2006 Elsevier Science B.V. on STN DUPLICATE
 TI Generation of cell-to-cell signals in quorum sensing: Acyl homoserine lactone synthase activity of a purified *Vibrio fischeri* LuxI protein

L5 ANSWER 142 OF 176 Elsevier BIOBASE COPYRIGHT 2006 Elsevier Science B.V. on STN DUPLICATE
 TI Structure and function of S-adenosylmethionine synthetase: Crystal structures of S-adenosylmethionine synthase with ADP, BrADP, and PP(i) at 2.8 Å resolution

L5 ANSWER 143 OF 176 CAPLUS COPYRIGHT 2006 ACS on STN DUPLICATE 37
 TI Enzymic synthesis of S-adenosyl-L-methionine on the preparative scale

L5 ANSWER 144 OF 176 Elsevier BIOBASE COPYRIGHT 2006 Elsevier Science B.V.
on STN

TI The structure of the C-terminal domain of methionine synthase: Presenting
S-adenosylmethionine for reductive methylation of B.sub.1.sub.2

L5 ANSWER 145 OF 176 Elsevier BIOBASE COPYRIGHT 2006 Elsevier Science B.V.
on STN

TI Flexible loop in the structure of S-adenosylmethionine synthetase
crystallized in the tetragonal modification

L5 ANSWER 146 OF 176 CAPLUS COPYRIGHT 2006 ACS on STN

TI Production of s-adenosyl-methionine (SAM) by
fermentation of Escherichia coli transformed with rat
S-Adenosyl-methionine synthetase

L5 ANSWER 147 OF 176 USPATFULL on STN

TI Genetic control of ethylene biosynthesis in plants using
S-adenosylmethionine hydrolase

L5 ANSWER 148 OF 176 CAPLUS COPYRIGHT 2006 ACS on STN DUPLICATE 38

TI Structural and functional roles of cysteine 90 and cysteine 240 in
S-adenosylmethionine synthetase

L5 ANSWER 149 OF 176 CAPLUS COPYRIGHT 2006 ACS on STN DUPLICATE 39

TI Investigation of monovalent cation activation of S-adenosylmethionine
synthetase using mutagenesis and uranyl inhibition

L5 ANSWER 150 OF 176 LIFESCI COPYRIGHT 2006 CSA on STN

TI Three cDNAs encoding S-adenosyl-L-methionine synthetase from Actinidia
chinensis

L5 ANSWER 151 OF 176 Elsevier BIOBASE COPYRIGHT 2006 Elsevier Science B.V.
on STN DUPLICATE

TI Hyperhomocysteinemia in premature arterial disease: Examination of
cystathionine β -synthase alleles at the molecular level

L5 ANSWER 152 OF 176 LIFESCI COPYRIGHT 2006 CSA on STN

TI Structural and functional roles of cysteine 90 and cysteine 240 in
S-adenosylmethionine synthetase

L5 ANSWER 153 OF 176 LIFESCI COPYRIGHT 2006 CSA on STN

TI Investigation of monovalent cation activation of S-adenosylmethionine
synthetase using mutagenesis and uranyl inhibition

L5 ANSWER 154 OF 176 Elsevier BIOBASE COPYRIGHT 2006 Elsevier Science B.V.
on STN DUPLICATE

TI Expression of apple 1-aminocyclopropane-1-carboxylate synthase in
Escherichia coli: Kinetic characterization of wild-type and active-site
mutant forms

L5 ANSWER 155 OF 176 Elsevier BIOBASE COPYRIGHT 2006 Elsevier Science B.V.
on STN

TI Nitrous oxide inactivation of cobalamin-dependent methionine synthase
from Escherichia coli: Characterization of the damage to the enzyme and
prosthetic group

L5 ANSWER 156 OF 176 CAPLUS COPYRIGHT 2006 ACS on STN DUPLICATE 42

TI Transfer and isomerization of the ribose moiety of AdoMet during the
biosynthesis of queuosine tRNAs, a new unique reaction catalyzed by the
QueA protein from Escherichia coli

L5 ANSWER 157 OF 176 Elsevier BIOBASE COPYRIGHT 2006 Elsevier Science B.V.
on STN DUPLICATE

TI Bacterial expression of catalytically active fragments of the

multifunctional enzyme enniatin synthetase

- L5 ANSWER 158 OF 176 BIOTECHNO COPYRIGHT 2006 Elsevier Science B.V. on STN
DUPLICATE
- TI Isozymes of S-adenosylmethionine synthetase are encoded by tandemly
duplicated genes in Escherichia coli
- L5 ANSWER 159 OF 176 BIOTECHNO COPYRIGHT 2006 Elsevier Science B.V. on STN
DUPLICATE
- TI Isolation and characterization of Escherichia coli mutants affected in
aerobic respiration: The cloning and nucleotide sequence of ubiG.
Identification of an S-adenosylmethionine-binding motif in protein, RNA,
and small-molecule methyltransferases
- L5 ANSWER 160 OF 176 BIOTECHNO COPYRIGHT 2006 Elsevier Science B.V. on STN
- TI A functional tomato ACC synthase expressed in Escherichia coli
demonstrates suicidal inactivation by its substrate S-adenosylmethionine
- L5 ANSWER 161 OF 176 USPATFULL on STN
- TI Lipophilic salts of S-adenosyl-L-methionine (SAM) with acylated taurine
derivatives
- L5 ANSWER 162 OF 176 CAPLUS COPYRIGHT 2006 ACS on STN
- TI Demonstration of extrinsic DNA from immune complexes in plasma of a
patient with systemic lupus erythematosus
- L5 ANSWER 163 OF 176 BIOTECHNO COPYRIGHT 2006 Elsevier Science B.V. on STN
DUPLICATE
- TI Novel Escherichia coli K-12 mutants impaired in S-adenosylmethionine
synthesis
- L5 ANSWER 164 OF 176 CAPLUS COPYRIGHT 2006 ACS on STN
- TI Specificity of S-adenosylmethionine synthetase for ATP analogs mono- and
disubstituted in bridging positions of the polyphosphate chain
- L5 ANSWER 165 OF 176 CAPLUS COPYRIGHT 2006 ACS on STN DUPLICATE 47
- TI Antigenic conservation of primary structural regions of
S-adenosylmethionine synthetase
- L5 ANSWER 166 OF 176 LIFESCI COPYRIGHT 2006 CSA on STN
- TI Cloning the mRNA encoding 1-aminocyclopropane-1-carboxylate synthase, the
key enzyme for ethylene biosynthesis in plants.
- L5 ANSWER 167 OF 176 USPATFULL on STN
- TI Stable salts of S-adenosyl-L-methionine with polyanions
- L5 ANSWER 168 OF 176 CAPLUS COPYRIGHT 2006 ACS on STN DUPLICATE 48
- TI SAM1, the structural gene for one of the S-adenosylmethionine synthetases
in Saccharomyces cerevisiae. Sequence and expression
- L5 ANSWER 169 OF 176 CAPLUS COPYRIGHT 2006 ACS on STN DUPLICATE 49
- TI A mutant of Escherichia coli temperature sensitive in the biosynthesis of
S-adenosylmethionine
- L5 ANSWER 170 OF 176 CAPLUS COPYRIGHT 2006 ACS on STN DUPLICATE 50
- TI S-Adenosylmethionine: studies on chemical and enzymic synthesis
- L5 ANSWER 171 OF 176 CAPLUS COPYRIGHT 2006 ACS on STN DUPLICATE 51
- TI Characterization of the monovalent cation activator binding site of
S-adenosylmethionine synthetase by thallium-205 NMR of enzyme-bound
thallium(1+)
- L5 ANSWER 172 OF 176 BIOTECHNO COPYRIGHT 2006 Elsevier Science B.V. on STN
DUPLICATE
- TI Regulation of methionine synthesis in Escherichia coli: Effect of metJ

gene product and S-adenosylmethionine on the in vitro expression of the metB, metL and metJ genes

L5 ANSWER 173 OF 176 LIFESCI COPYRIGHT 2006 CSA on STN
TI Structure of the divalent metal ion activator binding site of
S-adenosylmethionine synthetase studied by vanadyl(IV) electron
paramagnetic resonance.

L5 ANSWER 174 OF 176 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on
STN DUPLICATE 53
TI S ADENOSYL METHIONINE SYNTHETASE FROM ESCHERICHIA-COLI.

L5 ANSWER 175 OF 176 CAPLUS COPYRIGHT 2006 ACS on STN DUPLICATE 54
TI De novo synthesis of methionine in normal and brugia-infected Aedes
aegypti

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L5 ANSWER 39 OF 176 CAPLUS COPYRIGHT 2006 ACS on STN DUPLICATE 8
ACCESSION NUMBER: 2004:739861 CAPLUS
DOCUMENT NUMBER: 141:255490
TITLE: Method for fermentative preparation of
S-adenosylmethionine using recombinant Escherichia
coli
INVENTOR(S): Leonhartsberger, Susanne; Maier, Thomas
PATENT ASSIGNEE(S): Consortium fur Electrochemische Industrie G.m.b.H.,
Germany
SOURCE: U.S. Pat. Appl. Publ., 14 pp.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2004175805	A1	20040909	US 2004-789493	20040227
DE 10309856	A1	20040923	DE 2003-10309856	20030306
CA 2457423	AA	20040906	CA 2004-2457423	20040303
EP 1457569	A1	20040915	EP 2004-5193	20040304
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK				
JP 2004267209	A2	20040930	JP 2004-62766	20040305
CN 1570126	A	20050126	CN 2004-10007493	20040305
PRIORITY APPLN. INFO.:			DE 2003-10309856	A 20030306

AB A method for fermentative production of S-adenosylmethionine (SAM), includes culturing a bacterial strain obtainable from a starting strain and having increased SAM-synthetase activity, compared to the starting strain, in a culture medium, the bacterial strain secreting SAM into the culture medium and the SAM being removed from the culture medium. Thus, the metK gene, encoding methionine adenosyltransferase, was overexpressed in Escherichia coli.

L5 ANSWER 40 OF 176 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2005:66408 CAPLUS
DOCUMENT NUMBER: 142:428865
TITLE: Enzymatic catalysis method for producing
S-adenosylmethionine
INVENTOR(S): Zhang, Keqin
PATENT ASSIGNEE(S): Yinsai Biological Science and Technology Co., Ltd.,
Guangzhou, Peop. Rep. China
SOURCE: Faming Zhuanli Shenqing Gongkai Shuomingshu, 9 pp.
CODEN: CNXXEV

DOCUMENT TYPE: Patent
LANGUAGE: Chinese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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CN 1483829	A	20040324	CN 2003-126834	20030612
PRIORITY APPLN. INFO.:			CN 2003-126834	20030612

AB The method comprises constructing the S-adenosylmethionine synthetase-gene carrying genetically engineered bacterial strain via DNA recombination technique and enzyme engineering technique, fermenting to obtain SAM synthetase solution; synthesizing SAM from DL-methionine and ATP in 0.05-1 M phosphate buffer (pH 8.0) in the presence of the SAM synthetase solution catalyst at 30-35°C, separating and purifying on cationic exchange resin (DK110 or HD-2) column, adding hydroxypropyl Me cellulose in eluent, and spray drying.

L5 ANSWER 54 OF 176 USPATFULL on STN

ACCESSION NUMBER: 2004:39574 USPATFULL

TITLE: Corynebacterium glutamicum genes encoding proteins involved in membrane synthesis and membrane transport

INVENTOR(S): Pompejus, Markus, Waldsee, GERMANY, FEDERAL REPUBLIC OF
Kroger, Burkhard, Limburgerhof, GERMANY, FEDERAL REPUBLIC OF
Schroder, Hartwig, Nussloch, GERMANY, FEDERAL REPUBLIC OF

Zelder, Oskar, Speyer, GERMANY, FEDERAL REPUBLIC OF
Haberhauer, Gregor, Limburgerhof, GERMANY, FEDERAL REPUBLIC OF

PATENT ASSIGNEE(S): BASF Aktiengesellschaft, Ludwigshafen, GERMANY, FEDERAL REPUBLIC OF (non-U.S. corporation)

	NUMBER	KIND	DATE
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PATENT INFORMATION:	US 2004030116	A1	20040212
APPLICATION INFO.:	US 2003-627476	A1	20030725 (10)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 2000-602787, filed on 23 Jun 2000, PENDING		

	NUMBER	DATE
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PRIORITY INFORMATION:	DE 1999-19931454	19990708
	DE 1999-19931478	19990708
	DE 1999-19931563	19990708
	DE 1999-19932122	19990709
	DE 1999-19932124	19990709
	DE 1999-19932125	19990709
	DE 1999-19932128	19990709
	DE 1999-19932180	19990709
	DE 1999-19932182	19990709
	DE 1999-19932190	19990709
	DE 1999-19932191	19990709
	DE 1999-19932209	19990709
	DE 1999-19932212	19990709
	DE 1999-19932227	19990709
	DE 1999-19932228	19990709
	DE 1999-19932229	19990709
	DE 1999-19932230	19990709
	DE 1999-19932927	19990714
	DE 1999-19933005	19990714
	DE 1999-19933006	19990714
	DE 1999-19942088	19990903
	DE 1999-19940764	19990827

DE 1999-19940765	19990827
DE 1999-19940766	19990827
DE 1999-19940830	19990827
DE 1999-19940831	19990827
DE 1999-19940832	19990827
DE 1999-19940833	19990827
DE 1999-19941378	19990831
DE 1999-19941379	19990831
DE 1999-19942078	19990903
DE 1999-19941395	19990831
DE 1999-19942077	19990903
DE 1999-19942079	19990903
US 1999-141031P	19990625 (60)

DOCUMENT TYPE: Utility
 FILE SEGMENT: APPLICATION
 LEGAL REPRESENTATIVE: LAHIVE & COCKFIELD, LLP., 28 STATE STREET, BOSTON, MA, 02109
 NUMBER OF CLAIMS: 38
 EXEMPLARY CLAIM: 1
 LINE COUNT: 3058

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Isolated nucleic acid molecules, designated MCT nucleic acid molecules, which encode novel MCT proteins from *Corynebacterium glutamicum* are described. The invention also provides antisense nucleic acid molecules, recombinant expression vectors containing MCT nucleic acid molecules, and host cells into which the expression vectors have been introduced. The invention still further provides isolated MCT proteins, mutated MCT proteins, fusion proteins, antigenic peptides and methods for the improvement of production of a desired compound from *C. glutamicum* based on genetic engineering of MCT genes in this organism.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 111 OF 176 USPATFULL on STN
 ACCESSION NUMBER: 2001:196823 USPATFULL
 TITLE: SAM operon
 INVENTOR(S): DeHoff, Bradley Stuart, Indianapolis, IN, United States
 Rosteck, Jr., Paul Robert, Indianapolis, IN, United States
 PATENT ASSIGNEE(S): Eli Lilly and Company, Indianapolis, IN, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6312920	B1	20011106
APPLICATION INFO.:	US 1997-955957		19971022 (8)

	NUMBER	DATE
PRIORITY INFORMATION:	US 1996-30898P	19961113 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	GRANTED	
PRIMARY EXAMINER:	Yucel, Remy	
LEGAL REPRESENTATIVE:	Cohen, Charles E., Tucker, Tina M., Webster, Thomas D.	
NUMBER OF CLAIMS:	36	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	2 Drawing Figure(s); 2 Drawing Page(s)	
LINE COUNT:	725	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention provides isolated nucleic acid compounds encoding a novel SAM synthetase of *Streptomyces fradiae*. Also provided are vectors and transformed heterologous host cells for expressing the SAM synthetase and a method for preparing S-adenosylmethionine from recombinant host cells transformed with the SAM synthetase gene.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 114 OF 176 CAPLUS COPYRIGHT 2006 ACS on STN DUPLICATE 19
ACCESSION NUMBER: 2001:64719 CAPLUS
DOCUMENT NUMBER: 135:148135
TITLE: Lowering S-adenosylmethionine levels in Escherichia coli modulates C-to-T transition mutations
AUTHOR(S): Macintyre, Georgina; Atwood, C. Victoria; Cupples, Claire G.
CORPORATE SOURCE: Biology Department, Concordia University, Montreal, QC, H3G 1M8, Can.
SOURCE: Journal of Bacteriology (2001), 183(3), 921-927
CODEN: JOBAAY; ISSN: 0021-9193
PUBLISHER: American Society for Microbiology
DOCUMENT TYPE: Journal
LANGUAGE: English

AB Deoxycytosine methylase (Dcm) enzyme activity causes mutagenesis in vitro either directly by enzyme-induced deamination of cytosine to uracil in the absence of the Me donor, S-adenosylmethionine (SAM), or indirectly through spontaneous deamination of [5-methyl]cytosine to thymine. Using a Lac reversion assay, we investigated the contribution of the first mechanism to Dcm mutagenesis in vivo by lowering the levels of SAM. Escherichia coli SAM levels were lowered by reducing SAM synthetase activity via the introduction of a metK84 allele or by hydrolyzing SAM using the bacteriophage T3 SAM hydrolase. The metK84 strains exhibited increased C-to-T mutagenesis. Expression of the T3 SAM hydrolase gene, under the control of the arabinose-inducible PBAD promoter, effectively reduced Dcm-mediated genomic DNA methylation. However, increased mutagenesis was not observed until extremely high arabinose concns. were used, and genome methylation at Dcm sites was negligible.

REFERENCE COUNT: 50 THERE ARE 50 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 115 OF 176 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN

ACCESSION NUMBER: 2002:201211 BIOSIS
DOCUMENT NUMBER: PREV200200201211
TITLE: metK is an essential gene in E. coli K-12.
AUTHOR(S): Wei, Y. [Reprint author]; Newman, E. [Reprint author]
CORPORATE SOURCE: Concordia University, Montreal, PQ, Canada
SOURCE: Abstracts of the General Meeting of the American Society for Microbiology, (2001) Vol. 101, pp. 418-419. print.
Meeting Info.: 101st General Meeting of the American Society for Microbiology. Orlando, FL, USA. May 20-24, 2001. American Society for Microbiology.
ISSN: 1060-2011.
DOCUMENT TYPE: Conference; (Meeting)
Conference; Abstract; (Meeting Abstract)
LANGUAGE: English
ENTRY DATE: Entered STN: 20 Mar 2002
Last Updated on STN: 20 Mar 2002

AB The E. coli metK gene codes for the enzyme s-adenosylmethionine synthetase which converts methionine to S-adenosylmethionine (SAM) a major methyl donor of the cell. To see if this gene is essential to E. coli, we used the elegant pK03 gene replacement vector of George Church in cells carrying an intact metK gene on the paraBAD plasmid. This resulted in a 600 bp deletion in metK, confirmed by sequencing across the deletion cloned in pK03. Because this strain allowed for frequent recombination, and because pBAD-metK is expressed at a relatively high rate even in the absence of arabinose, we wished to clone the intact metK gene under the control of a highly-inducible tightly-regulated promoter in a low copy plasmid in a recA- strain. We therefore cloned metK on a p15A construct obtained from Dr. Lutz, under

control of the pLtet promoter, and replaced pbadmetK with this vector. We then transduced this strain with a gene producing the tet repressor, and made it recA- also by transduction. This resulted in a strain of E. coli K12 which carries a 600 bp deletion in the chromosomal metK gene with a plasmid-carried functional metK under the tet promoter. This strain cannot grow on LB unless anhydrotetracycline is added to induce metK transcription. We conclude that metK is an essential gene, and E. coli K12 cannot grow without SAM.

L5 ANSWER 143 OF 176 CAPLUS COPYRIGHT 2006 ACS on STN DUPLICATE 37
 ACCESSION NUMBER: 1997:108749 CAPLUS
 DOCUMENT NUMBER: 126:225514
 TITLE: Enzymic synthesis of S-adenosyl-L-methionine on the preparative scale
 AUTHOR(S): Park, Jeongho; Tai, Junzhe; Roessner, Charles A.; Scott, A. Ian
 CORPORATE SOURCE: Center for Biological NMR, Department of Chemistry, Texas AandM University, College Station, TX, 77843-3255, USA
 SOURCE: Bioorganic & Medicinal Chemistry (1996), 4(12), 2179-2185
 CODEN: BMECEP; ISSN: 0968-0896
 PUBLISHER: Elsevier
 DOCUMENT TYPE: Journal
 LANGUAGE: English

AB The problems inherent in the enzymic and chemical synthesis of S-adenosyl-L-methionine (SAM) led to development of an efficient, simple method for the synthesis of large amts. of labeled SAM. It has previously been reported that the problem of product inhibition of E. coli SAM synthetase encoded by the metK gene was successfully overcome in the presence of sodium p-toluenesulfonate (pTsONa). This research has now been expanded to demonstrate that product inhibition of this enzyme can also be overcome by adding a high concentration of

β -mercaptoethanol (β ME), acetonitrile, or urea. In addition, a recombinant strain of E. coli has been constructed that expresses the yeast SAM synthetase encoded by the sam2 gene. The yeast enzyme does not have the problem of product inhibition seen with the E. coli enzyme. Complete conversion of 10 mM methionine to SAM was achieved in incubations with either the recombinant yeast enzyme and 1 M potassium ion or the E. coli enzyme in the presence of additives such as β ME, acetonitrile, urea, or pTsONa. The recombinant yeast SAM synthetase was used to generate SAM in situ for use in the multi-enzymic synthesis of precorrin 2.

REFERENCE COUNT: 57 THERE ARE 57 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 146 OF 176 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1995:605638 CAPLUS
 DOCUMENT NUMBER: 123:2775
 TITLE: Production of s-adenosyl-methionine (SAM) by fermentation of Escherichia coli transformed with rat S-Adenosyl-methionine synthetase
 INVENTOR(S): Mato, Jose Maria; Pajares, Maria Angeles; Mingorance, Jesus; Avarez, Luis
 PATENT ASSIGNEE(S): Boehringer Ingelheim Espana S.A., Spain
 SOURCE: Eur. Pat. Appl., 11 pp.
 CODEN: EPXXDW
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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 EP 647712 A1 19950412 EP 1993-116221 19931007
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE
 PRIORITY APPLN. INFO.: EP 1993-116221 19931007
 AB A method of production for production of S-adenosyl-L-methionine (SAM) by
 fermentation

of bacteria is presented. Escherichia coli was transformed with an
 expression vector containing a nucleic acid sequence coding for rat
 S-adenosyl-methionine synthetase and an inducible bacteriophage T7
 promoter sequence. SAM is a naturally occurring mol., widely distributed
 throughout body tissues and fluids. It plays a central role in three main
 metabolic pathways, such as transmethylation, transsulphuration and
 aminopropylation. SAM is currently used in medical and pharmacol. areas
 due to its therapeutic potential in liver damage and affective disorders.
 This method has superior properties with respect to prior approaches to
 SAM production by fermentation of a microorganism and may have a potential
 industrial interest as a powerful source of SAM.

L5 ANSWER 169 OF 176 CAPLUS COPYRIGHT 2006 ACS on STN DUPLICATE 49
 ACCESSION NUMBER: 1987:512408 CAPLUS
 DOCUMENT NUMBER: 107:112408
 TITLE: A mutant of Escherichia coli temperature sensitive in
 the biosynthesis of S-adenosylmethionine
 AUTHOR(S): Kimchi, Bracha; Ron, Eliora Z.
 CORPORATE SOURCE: George S. Wise Fac. Life Sci., Tel Aviv Univ., Tel
 Aviv, 69978, Israel
 SOURCE: FEMS Microbiology Letters (1987), 43(1), 101-6
 CODEN: FMLED7; ISSN: 0378-1097
 DOCUMENT TYPE: Journal
 LANGUAGE: English

AB S-Adenosylmethionine (SAM) is synthesized in vitro by
 SAM synthetase, which is coded for by the metK gene of
 E. coli. Since E. coli cells are impermeable to SAM, it has
 been impossible to obtain mutants which require SAM for growth. The
 finding that SAM is required for regulating methionine biosynthesis was
 used to select metK mutants which have the phenotype of resistance to
 methionine analogs. These mutants show reduced SAM synthesis in vitro,
 and a lower level of intracellular SAM. However, as all these mutants can
 grow, without added SAM, the block in SAM synthesis must be incomplete.
 To try to block SAM synthesis more completely temperature-sensitive metK
 mutation was combined with a block in the synthesis of cystathionine
 (metA), a precursor that supports only slow growth because of slow entry.
 At the nonpermissive temperature for metK, these double mutants could grow on
 methionine but not on cystathionine, in correlation with the greatly
 reduced intracellular level of SAM. This result indicates that it is
 possible to reduce intracellular SAM concns. to levels which are low
 enough to prevent growth of E. coli. Moreover, since the mutation
 responsible for the reduction in SAM level is in the metK gene, it
 is suggested that SAM synthetase is the enzyme which
 catalyzes SAM biosynthesis in E. coli cells.

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INDEX 'ADISCTI, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, ANTE, AQUALINE,
 AQUASCI, BIOENG, BIOSIS, BIOTECHABS, BIOTECHDS, BIOTECHNO, CABA, CAPLUS,
 CEABA-VTB, CIN, CONFSCI, CROPB, CROPU, DDFB, DDFU, DGENE, DISSABS, DRUGB,
 DRUGMONOG2, DRUGU, EMBAL, EMBASE, ...' ENTERED AT 20:40:48 ON 04 SEP 2006
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 48 FILE AGRICOLA
 1 FILE AQUASCI
 18 FILE BIOENG

280 FILE BIOSIS
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 126 FILE CABA
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L1 QUE (SAM OR ADOMET?) (S) (SYNTHETAS? OR SYNTHAS?)

D RANK

FILE 'CAPLUS, USPATFULL, BIOSIS, ESBIODBASE, MEDLINE, SCISEARCH, EMBASE, BIOTECHNO, LIFESCI, TOXCENTER' ENTERED AT 20:42:47 ON 04 SEP 2006

L2 2227 SEA (SAM OR ADOMET?) (S) (SYNTHETAS? OR SYNTHAS?)

L3 1715 SEA L2 (S) (METHOD? OR SYNTH? OR BIOSYNTH? OR PRODUC? OR PROCES?)

L4 359 SEA L3 (S) (BACTER? OR COLI? OR ESCHERI?)

L5 176 DUP REM L4 (183 DUPLICATES REMOVED)

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